DUPLICATE

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In re Application of:	)	
	)	
CAPROCK EDUCATIONAL	)	
BROADCASTING FOUNDATION	)	File No. BPED-831220AD
	)	
	)	
	)	
For Modification of a	)	
Construction Permit for	)	
New Non-Commercial Educational	)	
FM Station Lubbock, TX	)	

To: Chief, Mass Media Bureau

PETITION FOR RIGHT TO MODIFY CONSTRUCTION PERMIT

Comes now , CAPROCK EDUCATIONAL BROADCASTING FOUNDATION, and hereby request the Chief of the FM branch to accept the following Modification of the above numbered Construction Permit.

1) The purpose of the attached information is to provide a showing as to why the enclosed modification should be made.

2) On February 22, 1988 we received notice from the tower owner, Panhandle Telcom that we could no longer utilize his tower for our antenna. (See attached letter).

3) The reasons given were beyond our control and we therefore ask the Commission to allow us to move our antenna location to a new tower site.

4) The new site selected will cause no interference problems to either existing or proposed stations.

5) In the course of this move we have determined that we would like to utilize the full power and height allocated to a Class A station. (1.5 KW and 134.1 meters). We believe that this will better serve our community and the public interest.

6) Due diligence was used in the research and preparation of this modification which is directed toward the adduction of information which is relevant to the instant approval under the Commission's rules.

WHEREFORE, premises considered, and good cause having been shown, it is requested that this Modification be accepted and made a part of the Construction Permit of CAPROCK

EDUCATIONAL BROADCASTING FOUNDATION for the above referenced file number and location.

Respectfully submitted,

T. Kent Atkins,
Trustee,
CAPROCK EDUCATIONAL
BROADCASTING FOUNDATION

CERTIFICATION

I hereby certify that all of the information is true, correct and complete to the best of my knowledge.

Dated, March 23, 1988

Signed _____

Panhandle Telcom

Your Two-Way Radio Specialist
1803 West Jackson
Amarillo, Texas
665-6881

Mr. T. Kent Atkins
Caprock Educational Broadcasting
2100 Hwy. 360, Suite 1204
Grand Prairie, TX 75050

February 22, 1988

Dear Mr. Atkins,

In regard to your request for tower space on our Lubbock tower, please be advised that we must regrettably decline our previous offer. When we offered Caprock Educational Broadcasting space on the tower in June of 1983, we had only four tenants at the time. During the past five years since we made that commitment to you we have added over eleven new two-way repeaters.

We are denying your request for space for two reasons:
1) The wind loading factor of our tower is now at a maximum. We cannot add any additional weight to the tower.
2) Having done an intermodulation study we have determined that your frequency would cause interference to the existing tenants.

We wish you luck in your endeavor and hope to serve you in the future.

Yours truly,

Paul Sizemore
Operations manager

United States of America
Federal Communications Commission
Washington, D.C. 20554

Approved by OMB
3060-0034
Expires 9/30/87

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

*(Carefully read instructions before filling out Form—**RETURN ONLY FORM TO FCC**)*

For Commission Use Only
File No. BMPED-880328MM

Section I **General Information**

1. Name of Applicant

Caprock Educational Broadcasting Foundation

Street Address

2100 Hwy 360 Suite 1204

City: Grand Prairie | State: TX | ZIP Code: 75050-

Telephone No. (*Include Area Code*): (214)647-1010

Send notices and communications to the following named person at the address below:

Name

James Oyster

Street Address

8315 Tobin Road

City: Annandale | State: VA | ZIP Code: 22003-

Telephone No. (*Include Area Code*): (703)573-6765

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency: 211/90.1

(b) Community of license:

City: Lubbock | State: TX

Check one of the following boxes:

- ☐ Application for new station
- ☐ Major Change in Existing station; call sign: _____
- ☐ Minor Change in Existing station; call sign: _____
- ☒ Modification of Construction Permit; File No. of CP: BPED-831220AD
- ☐ Amendment to Pending Application; Reference Number (ARN): _____

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

☐ YES ☒ NO

If Yes, State: Call letters: Community of license:

City: State:

Name of Applicant

1. Purpose of authorization applied for:

☒ Construct a new station ☐ Install Auxiliary system

Change: ☒ Effective radiated power ☐ Frequency

☒ Antenna height above average terrain ☐ Transmitter location

☐ Studio location outside community of license

☐ Other (*Summarize briefly the nature of the changes proposed.*)

2. Community of license: State: Texas City or Town: Lubbock

3. Facilities requested: Frequency: 90.1 MHz Channel No.: 211 Class (Check one below): ☒ A ☐ B ☐ B1 ☐ C ☐ C1 ☐ C2 ☐ D

4. Geographic coordinates of antenna (to nearest second)

North Latitude 33° 36' 32" West Longitude 101° 43' 45"

5. Effective radiated power:

Polarization	Horizontal Plane	Maximum (Beam tilt only)
Horizontal	1.5 kW	kW
Vertical	1.5 kW	kW

6. Height in meters of antenna radiation center:

	Above Average terrain (HAAT)	Above Mean Sea Level	Above Ground
Horizontal	134.1 meters	1098.8 meters	132.6 meters
Vertical	134.1 meters	1098.8 meters	132.6 meters

7. Is a directional antenna being proposed? ☐ YES ☒ NO

If Yes, attach as Exhibit No. N/A an engineering statement with all data specified in Section 73.316(d) of the Commission's Rules.

8. Transmitter location: State Texas County Lubbock

City or Town: Lubbock

Street Address (*or other identification*): 3.8 mi east of City on FM 114

9. Overall height of complete structure above ground, including all appurtenances and lighting (*if any, see Part 17*). 146.0 meters

10. Attach as Exhibit No. E-1 map(s) (*Sectional Aeronautical charts or equivalent*) of the area proposed to be served and shown thereon:

(a) Proposed transmitter location and the radials along which the profile graphs have been prepared;

(b) The 1mV/m predicted contour;

(c) Area (*sq. mi.*) and population (*latest census*) within 1 mV/m contour;

(d) Scale of miles or kilometers (*kilometers if available*).

Attach as Exhibit No. E-2 a map (*Sectional Aeronautical charts where obtainable*) showing the present and proposed 1 mV/m (60 dbu) contours. 564.2 Proposed 243.9 Existing

Enter the following from Exhibit above: Gain Area 320.3 sq. mi. Loss Area 39.2 sq. mi.

Percent change (gain area plus loss area as percentage of present area) .56 %.

If 50% or more this constitutes a major change. Indicate in question 2(e), Section I, accordingly. Applicant is not increasing power or antenna above the Class A assignment, however applicant is moving to another tower due to potential intermodulation problems. Applicant has chosen to utilize the full 3KW power

12. If the main studio will not be within the boundaries of the principal community to be served, attach as Exhibit No. N/A a justification pursuant to Section 73.1125(f) of the Commission's Rules.

13. Attach as Exhibit No. E-3 map(s) (*7.5 minute U.S. Geographic Survey topographic quadrangles if available*) of the proposed antenna location showing the following information:

(a) Proposed transmitter location accurately plotted with the latitude, the longitude lines clearly marked and showing a scale of statute kilometers.

(b) Transmitter location and call letters of all AM broadcast stations within 2 miles of the proposed antenna location.

14. If there are any FM or TV stations within 200 feet of proposed antenna or non-broadcast radio stations (*except amateur and citizens band*), or established commercial and government receiving stations in the general vicinity which may be adversely affected by the proposed operation, attach as Exhibit No. E-4 the expected effect, a description of remedial steps that may be pursued if necessary, and a statement from the applicant accepting full responsibility for the elimination of any objectionable effect on existing stations.

15. Tabulation of Terrain Data. *(Calculated in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules utilizing 7.5 minute topographic maps, if available.)*

Radial bearing *(degrees true)*	Height of antenna, radiation center above average elevation of radial (3-16 kilometers) Meters	Predicted Distance To the 1 mV/m contour Kilometers
0°	Please see Exhibit E-5	
45°		
90°		
135°		
180°		
225°		
270°		
315°		

Allocation Studies
(See Subpart C of Part 73 of the Commission's Rules and Regulations)

16. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

17. With regard to stations within 320 kilometers (199 miles) of the common border between the United States and Mexico, attach as Exhibit No. N/A information required in 1/.

18. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), then with regard to stations more than 320 kilometers (199 miles) from the common border between the United States and Mexico or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as Exhibit No. E-6 a complete allocation study to establish the lack of prohibited overlap of contours involving these stations. The allocation study should include the following:

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
(d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
(e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
(f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
(g) A scale of miles and properly labeled longitude and latitude lines, shown across the entire (Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(h) The name of the map(s) used in the exhibit(s).

1/ A showing that the proposed operation meets the minimum distance separation requirements. If any separations are proposed that are less than the applicable minimum separation requirements plus 15 kilometers, include these stations. Also include existing stations, proposed stations, and cities which appear in the Table of Assignments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

19. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.

20. With regard to station separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as Exhibit No. E-7 information required in 1/*(separation requirements involving intermediate frequency [i.f.] interference).*

21. Is the proposed operation on Channel 218, 219 or 220? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222, and 223.

22. Is the proposed station for a channel in the range from Channel 201 to 221 (88.1-91.9 MHz) and the proposed antenna location within the Grade B contour of a channel 6 television station or sufficiently near the Grade B contour that a question of interference to channel 6 may be raised? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A a map showing the Grade B contour of the television station and the proposed antenna location. Also include discussion of the possibility of interference to the Channel 6 station and the steps proposed to remedy any interference which may occur.

23. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A information required in 1/ *(Except for class D [secondary] proposals.)*

24. If the proposed antenna location is in or near a populated area, attach Exhibit No. N/A a discussion of blanketing and the steps proposed to remedy any interference which may occur.

25. Environmental Statement, See Part I, Subpart 1 of the Commission's Rules.

Would a Commission grant of this application be a major action as defined by Section 1.1305 of the Commission's Rules? ☐ Yes ☒ No

If Yes, attach as Exhibit No. N/A a narrative statement in accordance with Section 1.1311 of the Commission's Rules.

If No, explain briefly.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

March 23, 1988
Date

T. Kent Atkins
Name

T. Kent Atkins
Signature *(check appropriate box below)*

2100 Hwy 360, Suite 1204
Address *(include ZIP Code)*

Grand Prairie, TX 75050

(214) 647-1010
Telephone No. *(include Area Code)*

☒ Technical Director ☐ Registered Professional Engineer ☐ Chief Operator

☐ Technical Consultant ☐ Other *(Specify)*

Section V-G **Antenna and Site Information**

Name of Applicant	Call Sign	Station Location
Caprock Educational Broadcasting Foundation	KECI	Lubbock Texas

Purpose of Application (Put "X" in appropriate box)

- ☐ New antenna construction
- ☐ Alteration of existing antenna structure
- ☒ Change in location

Facilities Requested: SIDE MOUNT ANTENNA ON EXISTING TOWER

1. Location of Antenna:

State	County	City or Town
Texas	Lubbock	Lubbock

Exact antenna location (*street address*). If outside city limits, give name of nearest town and distance and direction of antenna from town.

3.8 mi east of Lubbock on FM 114

Geographical coordinates (*to nearest second*). For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude 33° 36' 32" West Longitude 101° 43' 45"

2. Is the proposed site the same transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission? ☒ YES ☐ NO

If Yes, give call sign: KVOQ

3. Has the FAA been notified of proposed construction? ☐ YES ☒ NO
If Yes, give date and office where notice was filed.

4. List all landing areas within 5 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site.

	Landing Area	Distance	Direction
(a)	None		
(b)			
(c)			

5. Attach as Exhibit No. See below a description of the antenna system, including whether tower(s) are self-supporting or guyed. If a directional antenna, give spacing and orientation of towers. Antenna willbe side mounted on an existing tower

The tower is a uniform steel, guyed tower.

Tower		#1	#2	#3	#4	#5	#6
Overall height above ground (include obstruction lighting)	meters	146.0					
	feet	479.0					
Overall height above mean sea level (include obstruction lighting)	meters	1112.2					
	feet	3649.0					

6. Attach as Exhibit No. E-8 a vertical plan sketch for the proposed total structure (including supporting building, if any) giving heights above ground in feet and meters for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

T. Kent Atkins

2100 Hwy 360, Suite 1204

Signature (*Check appropriate box below*)

Grand Prairie, TX 75050

Address (*include ZIP Code*)

(214) 647-1010

Telephone No. (*Include Area Code*)

☒ Technical Director ☐ Registered Professional Engineer ☐ Other (*specify*)

☐ Technical Consultant ☐ Chief Operator

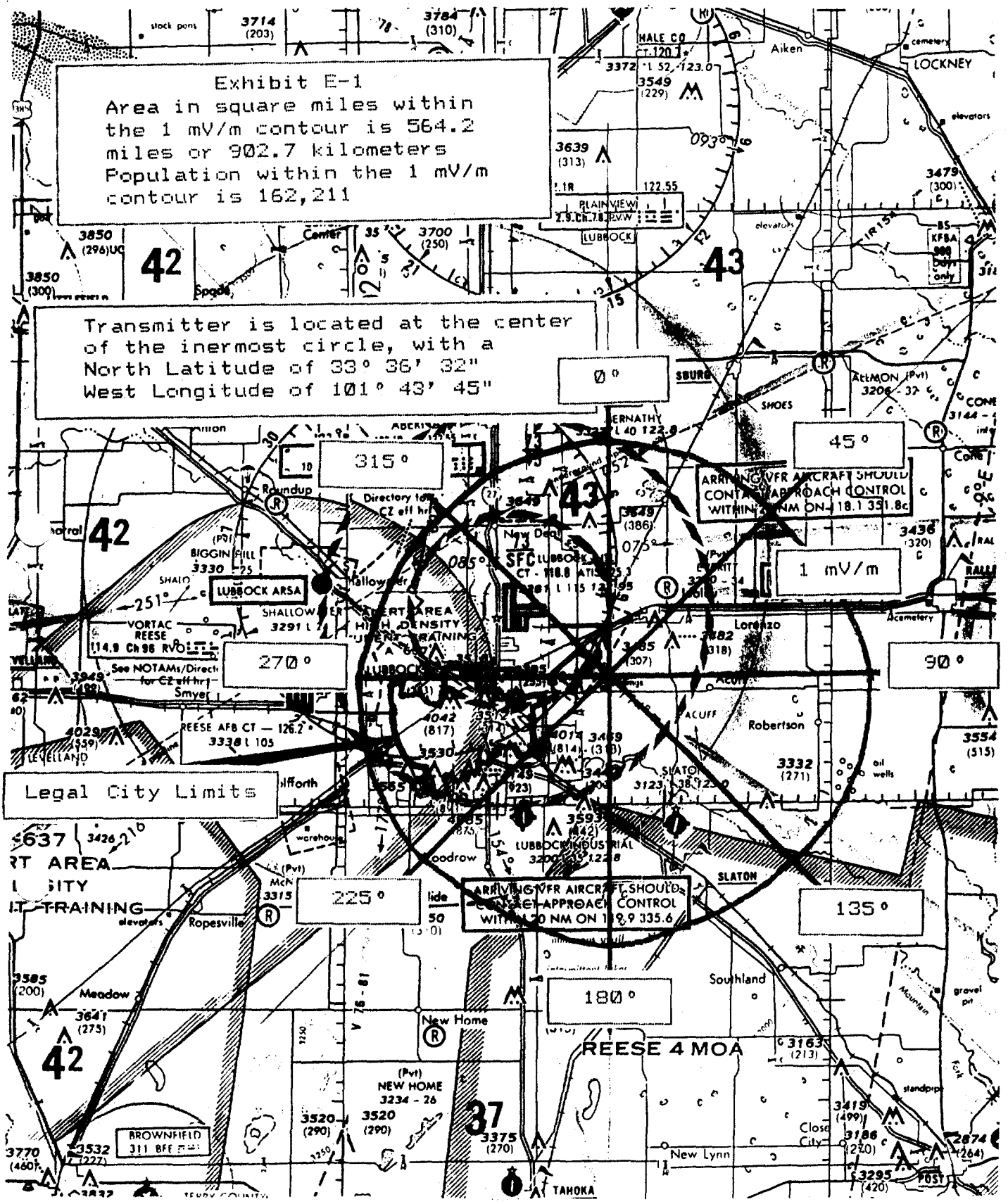


Exhibit E-1
Area in square miles within the 1 mV/m contour is 564.2 miles or 902.7 kilometers
Population within the 1 mV/m contour is 162,211
Transmitter is located at the center of the inermost circle, with a North Latitude of 33° 36' 32" West Longitude of 101° 43' 45"
Legal City Limits
0°
45°
90°
135°
180°
225°
270°
315°
1 mV/m
LUBBOCK ARSA
REESE AFB CT — 126.2
REESE 4 MOA
KILOMETERS
NAUTICAL MILES
STATUTE MILES

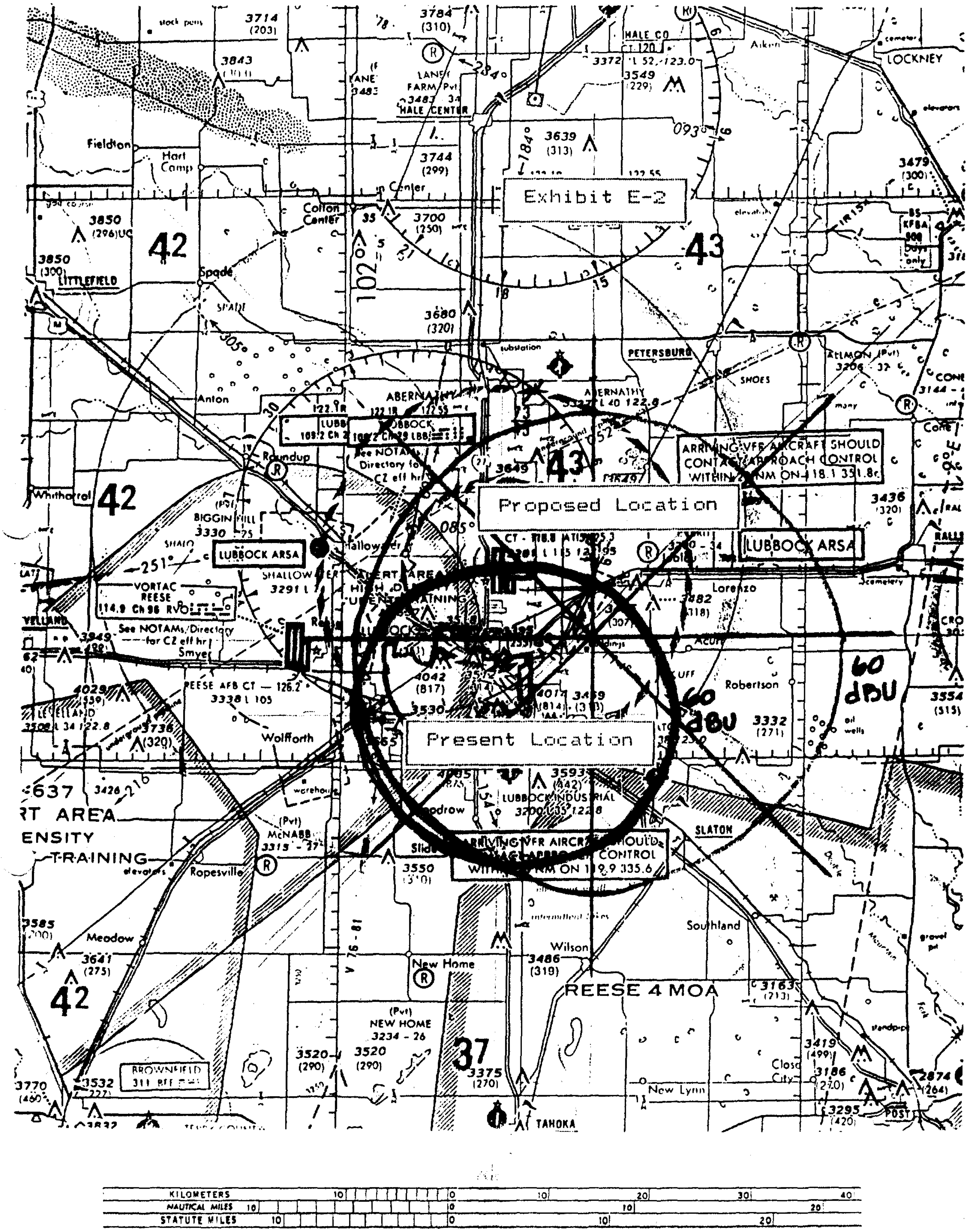


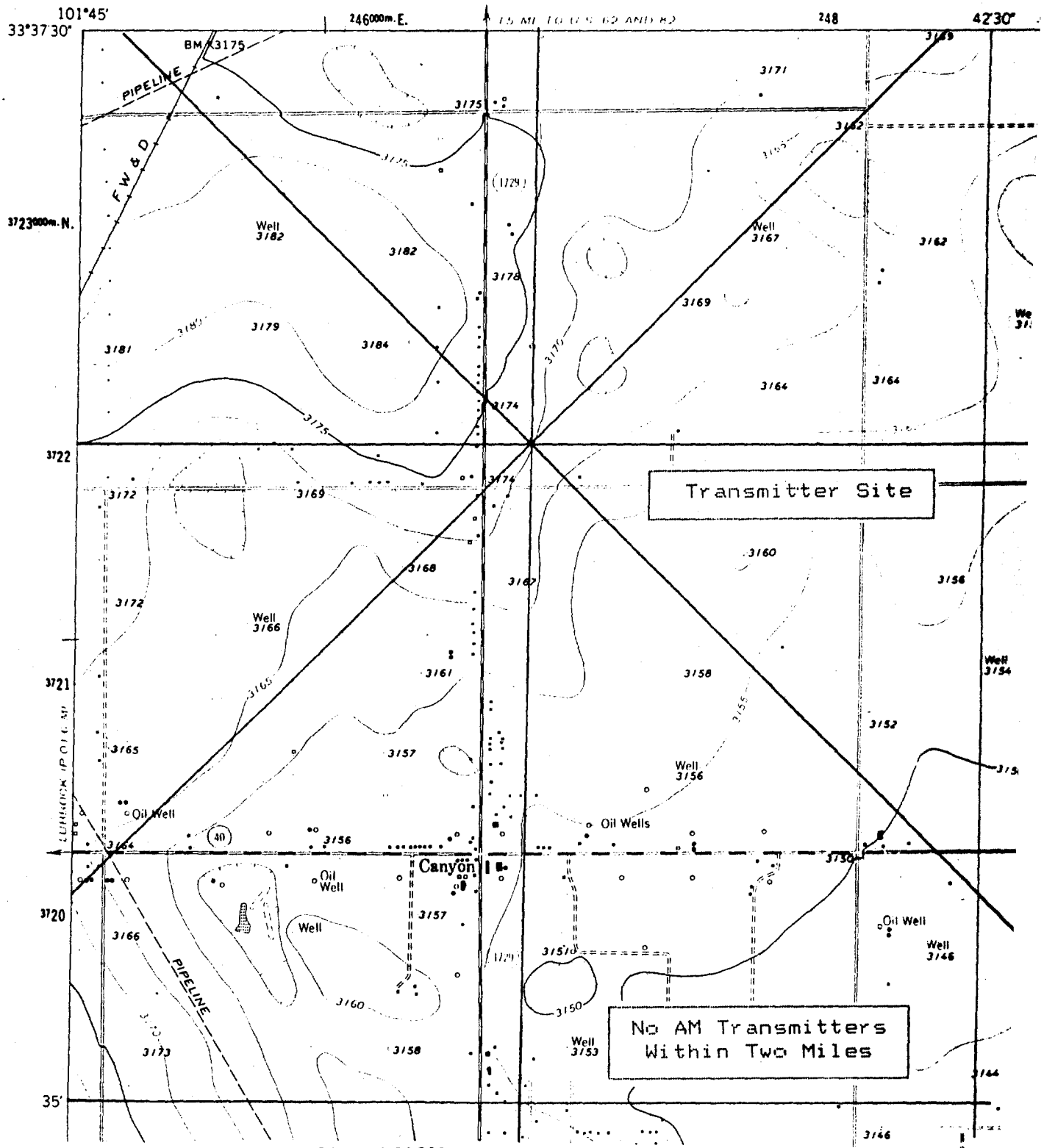
Exhibit E-2
Proposed Location
Present Location
60 dBU
60 dBU
LUBBOCK ARSA
LUBBOCK ARSA
ARRIVING VFR AIRCRAFT SHOULD CONTACT APPROACH CONTROL
HALE CENTER
LOCKNEY
Fieldton
Hart Camp
Cotton Center
LITTLEFIELD
Spade
Anton
ABERNATHY
PETERSBURG
Roundup
Lorenzo
Robertson
Wolfforth
Ropesville
Meadow
New Home
Wilson
Southland
SLATON
LUBBOCK INDUSTRIAL
REESE 4 MOA
REESE AFB
VORTAC REESE
TAHOKA
New Lynn
BROWNFIELD
KILOMETERS
NAUTICAL MILES
STATUTE MILES

BUFFALO SPRINGS LAKE QUADRANGLE
TEXAS-LUBBOCK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5651 I I NE
(NEW DEAL)

Exhibit E-3



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETRE

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Exhibit E-4

This Applicant has determined that there will be no blanketing at the proposed antenna site. The immediate area is virtually "farm land" and is sparsely populated. An intermodulation study of the existing antenna of KVOQ reveals no interference. Should any blanketing interference occur the Applicant will purchase any filters or take any steps necessary to remedy the problem.
The Applicant assumes full responsibility for any such problems should they arise.

March 22, 1988

Exhibit E-5

Section V-B, 15 Of FCC Form 340

Caprock Educational Broadcasting

Lubbock Texas

Channel 211 Class A

Bearing	Average Terrain Radial	Radiation Center A.A.T.	3.16 mV/m Miles/ Kilometers	1 mV/m Miles/ Kilometers
0	3225.7/ 983.2	379.40/ 115.6	7.7/ 12.3	13.7/ 21.9
45	3181.3/ 969.7	423.80/ 129.2	8.2/ 13.1	14.4/ 23.0
90	3137.1/ 956.2	468.00/ 142.6	8.6/ 13.8	15.1/ 24.2
135	3103.1/ 945.8	502.00/ 153.0	8.9/ 14.2	15.6/ 25.0
180	3117.1/ 950.1	488.00/ 148.7	8.8/ 14.1	15.4/ 24.6
225	3147.7/ 959.4	457.40/ 139.4	8.5/ 13.6	15.0/ 24.0
270	3180.4/ 969.4	424.70/ 129.4	8.2/ 13.1	14.4/ 23.0
3	3228.4/ 984.0	376.70/ 114.8	7.7/ 12.3	13.6/ 21.8

The Center Of Radiation Above Mean Sea Level is 3605.1 Feet or 1098.8 Meters

The Average Terrain Elevation is 3165.1 Feet or 964.7 Meters

The Radiation Center Above Average Terrain (HAAT) is 440.0 Feet or 134.1 Meters

The Area Within the 1 mV/m Contour is 564.2 Miles or 902.7 Kilometers

March 19, 1988

The following exhibit labeled Exhibit E-5b is included to show the Class A limit of 3 KW at 100 meters at the same site.

It should be noted that the predicted contours that result from the proposed reduced power of 1.5 KW, and increased HAAT of 134.1 in the Applicant's exhibit E-5 does not exceed these predicted contours.

Caprock Educational Broadcasting

Lubbock Texas

Channel 211 Class A

Bearing	Average Terrain Radial	Radiation Center A.A.T.	3.16 mV/m Miles/ Kilometers	1 mV/m Miles/ Kilometers
0	3225.7/ 983.2	267.32/ 81.5	7.7/ 12.3	13.7/ 21.9
45	3181.3/ 969.7	311.72/ 95.0	8.3/ 13.3	14.7/ 23.5
90	3137.1/ 956.2	355.92/ 108.5	8.9/ 14.2	15.6/ 25.0
135	3103.1/ 945.8	389.92/ 118.8	9.3/ 14.9	16.3/ 26.1
180	3117.1/ 950.1	375.92/ 114.6	9.2/ 14.7	16.0/ 25.6
225	3147.1/ 959.2	345.92/ 105.4	8.8/ 14.1	15.4/ 24.6
270	3180.4/ 969.4	312.63/ 95.3	8.3/ 13.3	14.7/ 23.5
	3228.4/ 984.0	264.63/ 80.7	7.6/ 12.2	13.6/ 21.8

The Center Of Radiation Above Mean Sea Level is 3493.0 Feet or 1064.7 Meters

The Average Terrain Elevation is 3165.0 Feet or 964.7 Meters

The Radiation Center Above Average Terrain (HAAT) is 328.0 Feet or 100.0 Meters

The Area Within the 1 mV/m Contour is 597.0 Miles or 955.2 Kilometers

Exhibit E-6

T. Kent Atkins
Dallas, Texas

Exhibit E-7

March 16, 1988

FM Interference study

Title: LUBBOCK 90.1 BRANDON SITE CLASS A — Latitude: 33-36-32
Channel 211A (90.1 MHz) ERP: 3 kW; EAH: 100 m — Longitude: 101-43-45
Database: DW 03/09/88 — Safety zone: 26 km

Call / City of License	Auth / St	Licensee name / FCC File no.	Chan / Freq	ERP-kW / EAH-m	Latitude / Longitude	Br-to / -from	Dist. (km)	Req. (km)
KENW-FM LIC		BD OF REGENTS EASTERN NM	*208C1	100	34-10-27	293.2	162.6	43.21
PORTALES	NM		89.5	56	103-21-03	112.3	119.4	CLEAR
Proposed F(50,50)	100 dBu = 2.201 km;	KENW-FM	F(50,50)	60 dBu = 41.01 km				
Proposed F(50,50)	60 dBu = 24.32 km;	KENW-FM	F(50,50)	100 dBu = 4.371 km				
ALLOC			*209A		32-19-12	208.2	162.1	32.00
ANDREWS	TX		89.7		102-32-48	27.8	130.1	CLEAR
Proposed F(50,50)	80 dBu = 7.676 km;	ALLOC	F(50,50)	60 dBu = 24.32 km				
Proposed F(50,50)	60 dBu = 24.32 km;	ALLOC	F(50,50)	80 dBu = 7.676 km				
ALLOC			*210A		32-44-06	192.4	99.25	60.70
LAMESA	TX		89.9		101-57-30	12.3	38.55	CLEAR
Proposed F(50,10)	54 dBu = 36.38 km;	ALLOC	F(50,50)	60 dBu = 24.32 km				
Proposed F(50,50)	60 dBu = 24.32 km;	ALLOC	F(50,10)	54 dBu = 36.38 km				
NEW CP		CAPROCK ED BCG FOUND	*211A	.50	33-32-31	228.3	11.18	89.34
LUBBOCK	TX	BPED-840626IE	90.1	82	101-49-09	48.2	-78.2	SHORT
CP Granted 10/15/87								
Proposed F(50,10)	40 dBu = 75.30 km;	NEW	F(50,50)	60 dBu = 14.04 km				
Proposed F(50,50)	60 dBu = 24.32 km;	NEW	F(50,10)	40 dBu = 48.04 km				
KPLN-FM LIC		PLAINS INDEPENDENT SCHOO	*212A		33-11-15	245.5	111.9	44.34
PLAINS	TX		90.3	41	102-49-20	64.9	67.58	CLEAR
Proposed F(50,10)	54 dBu = 36.38 km;	KPLN-FM	F(50,50)	60 dBu = 7.954 km				
Proposed F(50,50)	60 dBu = 24.32 km;	KPLN-FM	F(50,50)	54 dBu = 11.32 km				
ALLOC			*213A		32-28-12	135.4	176.6	32.00
SWEETWATER	TX		90.5		100-24-30	316.2	144.6	CLEAR
Proposed F(50,50)	80 dBu = 7.676 km;	ALLOC	F(50,50)	60 dBu = 24.32 km				
Proposed F(50,50)	60 dBu = 24.32 km;	ALLOC	F(50,50)	80 dBu = 7.676 km				
KDTD CP		CAPROCK EDUC BCG FOUND	*214A	.55	34-13-05	2.2	67.62	24.32
PLAINVIEW	TX	BPED-840626IG	90.7	102	101-42-02	182.2	43.30	CLEAR
CP Granted 03/25/85; Call Granted 07/11/85								
Proposed F(50,50)	100 dBu = 2.201 km;	KDTD	F(50,50)	60 dBu = 16.07 km				
Proposed F(50,50)	60 dBu = 24.32 km;	KDTD	F(50,50)	100 dBu =				km
KORQ-FM LIC		BAKCOR BCG INC	264C	100	32-24-48	130.9	201.4	32
ABILENE	TX		100.7	390	100-06-25	311.8	169.4	CLEAR
Was KORQ 11/15/84								
KPCE CP		DOVE BCG INC	265A	1.30	32-25-53	225.8	186.4	8
EUNICE	NM	BPH-850425IZ	100.9	131	103-09-08	45.0	178.4	CLEAR
REPLACES EXPIRED CP								

>> End of channel 211A study <<

United States of America

FEDERAL COMMUNICATIONS COMMISSION

FM BROADCAST STATION CONSTRUCTION PERMIT

Official Mailing Address:

CAPROCK EDUCATIONAL B/CNG FOUNDATION
3515 GOODFELLOW LANE
AMARILLO, TX 79121

Authorizing Official:

Lisa Scanlan
Supervisory Attorney, FM Branch
Audio Services Division
Mass Media Bureau

Grant Date: OCT 16 1987

Call sign: 840626IE

Permit File No.: BPED-840626IE

This permit expires 3:00 am. local time 18 months after grant date specified above

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

This permit shall be automatically forfeited if the station is not ready for operation within the time specified (date of expiration) or within such further time as the Commission may allow, unless completion of the station is prevented by causes not under the control of the permittee. See Sections 73.3598, 73.3599 and 73.3534 of the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Name of permittee:

CAPROCK EDUCATIONAL BROADCASTING FOUNDATION

Station Location:

TX-LUBBOCK

Frequency (MHz): 90.1

Channel: 211

Class: A

Hours of Operation: Unlimited

Transmitter location (address or description):

58TH & QUIRT AVE., LUBBOCK, TX

Transmitter: Type accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Transmitter output power: As required to achieve authorized ERP.

Antenna type: (directional or non-directional): Non-directional

Antenna coordinates: North Latitude: 33 32 31.0
West Longitude: 101 49 9.0

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the horizontal plane (kW) . . . . . :	0.64	0.64
Height of radiation center above ground (meters) . . . . . :	85.0	85.0
Height of radiation center above mean sea level (meters) . . . . . :	1051.0	1051.0
Height of radiation center above average terrain (meters) . . . . . :	82.0	82.0

Overall height of antenna structure above ground (including obstruction lighting, if any) . . . . . : 91.0 meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

Paragraph 1.0, FCC Form 715 (March 1978):

Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be equal and approximately one-seventh the height of the structure, provided however, that the bands shall not be more than 100 feet nor less than 1 and 1/2 feet in width. All towers shall be cleaned and repainted as often as necessary to maintain good visibility.

Paragraph 3.0, FCC Form 715 (March 1978):

There shall be installed at the top of the structure one 300 m/m electric code beacon equipped with two 620- or 700-watt lamps (PS-40, Code Beacon type), both lamps to burn simultaneously, and equipped with aviation red color filters. Where a rod or other construction of not more than 20 feet in height and incapable of supporting this beacon is mounted on top of the structure and it is determined that this additional construction does not permit unobstructed visibility of the code beacon from aircraft at any normal angle of approach, there shall be installed two such beacons positioned so as to insure unobstructed visibility of at least one of the beacons from aircraft at any normal angle of approach. The beacons shall be equipped with a flashing mechanism producing not more than 40 flashes per minute nor less than 12 flashes per minute with a period of darkness equal to approximately one-half of the luminous period.

Paragraph 11.0, FCC Form 715 (March 1978):

At the approximate mid point of the over-all height of the tower there shall be installed at least two 116- or 125-watt lamps (A21/TS) enclosed in aviation red obstruction light globes. Each light shall be mounted so as to insure unobstructed visibility of a least one light at each level from aircraft at any normal angle of approach.

Paragraph 21.0, FCC Form 715 (March 1978):

All lighting shall burn continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned on at a north sky light intensity level of about 35 foot candles and turned off at a north sky light intensity level of about 58 foot candles.